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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/003,347	12/06/2001	Zeev Smilansky	Q67625.	6579	
32588	7590 11/19/200	2			
APPLIED MATERIALS, INC.			EXAMINER		
	TBLVD. M/S 2061 ARA, CA 95050		BALI, VI	BALI, VIKKRAM	
			ART UNIT	PAPER NUMBER '	
			2623	· · · · · · · · · · · · · · · · · · ·	
			DATE MAILED: 11/19/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
	•	10/003,347	SMILANSKY ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Vikkram Bali	2623			
	The MAILING DATE of this communication app	pears on the cover sheet with the	correspondence address			
A SH THE I - Exter after - If the - If NO - Failu - Any r	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any					
Status	ed patent term adjustment. See 37 CFR 1.704(b).					
1)🖂	Responsive to communication(s) filed on 9/15	<u>9/2002</u> .				
2a) <u></u>	This action is FINAL . 2b)⊠ Th	nis action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠	Claim(s) 1-7 and 15 is/are pending in the app	lication.				
	4a) Of the above claim(s) <u>5-7 and 15</u> is/are withdrawn from consideration.					
5) 🗌	5) Claim(s) is/are allowed.					
6)⊠	6)⊠ Claim(s) <u>1-4</u> is/are rejected.					
7) 🗌						
8)□	8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9)□ .	The specification is objected to by the Examine	ır.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14)∐ A	cknowledgment is made of a claim for domesti	c priority under 35 U.S.C. § 119(e) (to a provisional application).			
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment	c(s)					
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)			
J.S. Patent and Tr PTO-326 (Re		ction Summary	Part of Paper No. 9			

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Group I, claims 1-4 in Paper No. 8 is acknowledged. And, the action follows:

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Alumot et al (US 5699447).

With respect to claim 1, Alumot discloses: method for the analysis of surfaces, particularly for the detection of defects on semiconductor wafers, (see col. 5, lines 16-18, inspecting semiconductor wafers), which comprises checking individual pixels of the surface under control, (see col. 12, lines 1-7, explains the methodology of getting the reference by computing the type of each pixel "individual pixel" and the same methodology is performed during the inspection process, and "under control" is read as the area under investigation or inspection), and detecting suspected pixels by collecting

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the signature of each pixel, (see col. 5, lines 20-23, the inspection process performs a detection of the defect in the inspected pattern by comparing the image with the reference, and the "signature" is read as the image), defined by the way in which the pixel responds to the light of a scanning beam, (col. 1, lines 15-19, states that the photo detector detects the presence of a particle by collecting the light scattered by the particles i.e. the light scattered is read as "pixel responds to the light scanning beam"), and determining whether said signature has the characteristics of a signature of a faultless or of a pixel that is defective or suspect to be defective, (see col. 5, lines 45-48 and col. 5, lines 56-59, the lines 45-48 detects the high probability of a detective region "suspect to be defective", and lines 56-59, detects the presence or absence of defect "pixel that is defective" or "faultless" as claimed); as claimed.

With respect to claim 2, he further discloses: analyzing the signature of each pixel to determine the presence of foreign particles, (see col. 1, lines 18-19, the photo detector detects the presence of a particle by collecting the light "signature of each pixel") as claimed.

With respect to claim 3, he further discloses: a pixel signature is defined by an array of signature components, each of which is a signal which corresponds to the intensity of the light scattered by the pixel in a fixed direction, (see col. 5, lines 52-55, the image is converted into a electrical signal "signature components", as the electrical

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signal is a signal that corresponds to the intensity of the light, because the CCD obtains the image as the light scattered of the wafer) as claimed.

With respect to claim 4, he further discloses: detecting defective or suspect pixels by a method chosen from among the group of comparing the pixel signature to a master signature, comparing parameters of the pixel signature to ranges of acceptable parameters, or determining the position of the pixel signature in a statistics of such signatures, (see col. 2, lines 34-36, for the broad view of the reference, that the comparison is done between the inspected pattern and the reference pattern "comparing the pixel signature to a master signature", and the description of the procedure is detailed in the col. 8, lines 62-67) as claimed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vikkram Bali whose telephone number is 703.305.4510. The examiner can normally be reached on 7:30 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amelia Au can be reached on 703.308.6604. The fax phone numbers for the organization where this application or proceeding is assigned are 703.872.9314 for regular communications and 703.872.9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is

Vikkram Bali Examiner

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νb

November 15, 2002

703.306.0377.